

THIRTY ADDITIONS TO THE VASCULAR FLORA OF KENTUCKY

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Since the preparation of a list of additions to the flora of Kentucky by Cranfill and Medley (1981), a number of additional records have come to our notice. While most are discoveries from field work in 1979 and 1980, a few are older collections. Several records are the result of ongoing studies of flora and vegetation of Hardin County, located just south of the Ohio River on the north central portion of the Mississippian Plateau, and of far northern Kentucky.

Where possible, nomenclature follows Radford, Ahles, and Bell (1968). Vouchers are deposited in the herbaria of the University of Kentucky (KY) or of Northern Kentucky University (KNK).

We are grateful to Dr. Dan K. Evans, Dr. A. A. Reznicek and the late Dr. Ernest O. Beal for confirming some of our determinations, to Max E. Medley for help in many ways, and to Dr. William Meijer for extending to us the facilities of the herbarium of the University of Kentucky.

DRYOPTERIS × *TRIPLOIDEA* Wherry. Henry Co.: scrubby oak-juniper-maple woods on N facing slope, ca 3 mi WSW of Lockport at W edge of Gratz topographic sheet, *Andre s.n.* (KY), 18 May 1980. With the scattered occurrence of one of the parents (*D. carthusiana* (Villars) Fuchs) in north central Kentucky, the occurrence of this hybrid in Kentucky was anticipated by Cranfill (1980). The continued existence of the hybrid at the Henry County site is in doubt as it occurs along the edge of a proposed powerline right-of-way.

POTAMOGETON PULCHER Tuckerm. Clinton Co.: shallow pools at edge of swamp forest along KY 639, ca 1 mi S of its junction with KY 90, *Cranfill 4257* (KY), 24 May 1979.

NAJAS MARINA L. Rowan Co.: floating in water ca 4 ft deep; area of boat ramp in Cave Run Lake, along highway 1274, ca 10 mi S of Morehead, *Thieret 52391* (KNK), 29 Aug 1980.

CHLORIS VERTICILLATA Nutt. Kenton Co.: roadside at intersection of

Oak St. and Helen St., Ludlow, *Applegarth* 221 (KNK), 1 Aug 1977.

PUCCINELLIA DISTANS (L.) Parl. Boone Co.: low spot at roadside along I-75, ca 2 miles S of Florence, *Thieret* 51233 (KNK), 11 Aug 1979. The use of salt for snow and ice removal from highways has, in many places, created a roadside ribbon of soil of increased salinity. This narrow habitat may be occupied by species of halophytic plants that otherwise are uncommon in an area. For such plants the name "highway halophytes" seems appropriate.

Puccinellia distans and, mentioned below, *Suaeda depressa* and *Spergularia marina* were collected together along I-75 in a habitat that almost certainly would not have existed except for highway salting. Associated plants were various grasses (including *Hordeum jubatum*), *Atriplex patula*, and *Polygonum aviculare*. About half the soil at the site was bare.

One of the best examples of the highway halophyte habitat we have seen recently is in central Ohio where, along mile after mile of I-75, *Puccinellia distans*—a grass recorded from only one Ohio county as recently as 1967 (Braun 1967)—occurs in a dense growth of myriads of individuals. So abundant is the species there that, from the point of population size, it surely ranks high among Ohio grasses.

CAREX AUSTRINA (Small) Mack. Hardin Co.: dry, rocky limestone slope above Sand Cave, ca 1 mi NW of Eastview, *Cranfill* H-952 (KY), 8 Jun 1978. This locality represents the northeastern known limit of the species.

CAREX LEPTALEA Wahl. Clinton Co.: dripping limestone ledges, with *Parnassia grandiflora*, Falls of the 76, above Lake Cumberland, along KY 734, *Cranfill* 4288 (KY), 24 May 1979; Hardin Co.: dripping limestone ledges, with *Dumortiera*, W facing slope of Green Rock Hollow, ca 1 km W of Summit, *Cranfill* H-728 (KY), 26 May 1978.

CAREX LUPULIFORMIS Sartwell. Hardin Co.: wet woods of sinkhole swamp forest near Vine Grove, just E of Walter Boone Roar, 0.25 mi S of its junction with KY 220, *Cranfill* H-1517 (KY), 15 Aug 1978. This species has been collected by Deam (1940) in Harrison County, Indiana, just north of Hardin County.

CAREX VESICARIA L. Jefferson Co.: Corn Island, Ohio River, *Short* s.n. (KY), 1840. A specimen collected by Short, misfiled in the UK herbarium, is this species. It was not recorded by him in any of his catalogs or their supplements.

CAREX TRIANGULARIS Boeckler. Hardin Co.: wet shores of Greer's Lake on E side of KY 1375, 1.5 mi S of Franklin's Crossroads, *Cranfill* H-907 (KY), 6 Jun 1978. The disjunct occurrence of this largely Mississippi Embayment sedge is another example of the relict flora that characterizes these sinkhole ponds.

JUNCUS GERARDII Loisel. Kenton Co.: low wet area in railroad yard, oily soil, west 19th at Holman, Covington, *Applegarth* 465 (KNK), 11 Aug 1978.

QUERCUS × BEBBIANA Schneider. Campbell Co.: edge of woods on slope above lake, *Q. alba* and *Q. macrocarpa* nearby, Campbell County Park, ca 6 mi S of Alexandria, *Thieret* 52428 (KNK), 3 Oct 1980.

SUAEDA CALCEOLIFORMIS (Hook.) Moq. (*S. depressa* auct.). Boone Co.: low spot at roadside along I-75, ca 2 mi S of Florence, *Thieret* 51234 (KNK), 11 Aug 1979. See text under *Puccinellia distans* above.

SILENE CSEREI Baumg. Campbell Co.: railroad yard, Silver Grove, *Thieret* 51106 (KNK), 7 Jul 1979.

SPERGULARIA MARINA (L.) Griseb. Boone Co.: low spot at roadside along I-75 ca 2 mi S of Florence, *Thieret* 51235 (KNK), 11 Aug 1979. See text under *Puccinellia distans* above.

RANUNCULUS FICARIA L. Campbell Co.: lawn weed, Bluegrass Avenue at US 27, Southgate, *Buddell* 108 (KNK), 24 Apr 1980.

PAPAVER SOMNIFERUM L. Hart Co.: several plants in black sandy moist soil along railroad tracks, Munfordville, *Hils* 36 (KNK), 27 Jun 1979.

BERTEROA INCANA (L.) DC. Jefferson Co.: weedy area at grain elevators, Kentucky St. and 15th St., Louisville, *Thieret* 50933 (KNK), 4 Jun 1979.

CARDARIA DRABA (L.) Desv. Campbell Co.: in field along US 27 ca 1/4 mi SE of junction of I-74 and US 27, Southgate, *Buddell* 107 (KNK), 21 May 1980.

LEPIDIUM PERFOLIATUM L. Campbell Co.: weedy roadside along US 27, ca 3/4 mi S of Gold Spring, *Thieret* 50345 (KNK), 2 Jun 1978.

LUNARIA ANNUA L. Campbell Co.: shaded roadside in oak woods, Campbell County Park, ca 6 mi S of Alexandria, *Buddell* 82 (KNK), 9 May 1980.

SISYMBRIUM LOESELII L. Campbell Co.: railroad yard, Silver Grove, *Thieret* 51110 (KNK), 7 Jul 1979.

EUPHORBIA FALCATA L. Harrison Co.: gravelly clearing ca 12 mi N of Cynthiana, *Thieret* 51121 (KNK), 3 Aug 1979.

HELIANTHEMUM BICKNELLII Fern. Hardin Co.: rocky dry opening along powerline cut, on W side of Lucas Grove Road, ca 4 mi W of Upton, *Cranfill* H-703 (KY), 26 May 1978. Although this species has not been previously reported from Kentucky, its habitat is so widespread in the western half of the state that the plant simply must be overlooked.

ELAEAGNUS UMBELLATA Thunb. Campbell Co.: edge of woods, Campbell County Park, ca 5 mi S of Alexandria, *Thieret* 52240 (KNK), 11 May 1980. This Asiatic species, in cultivation as "autumn-olive," is well established at Campbell County Park. In an old nursery at the park are several large (up to 10 ft tall) individuals of autumn-olive that produce fruits in abundance. Translucent red, tart, pleasant tasting, and juicy, the fruits are relished by various birds. Numerous young plants are found at various places in the nursery and in adjacent woods, even up to 1/2 mile or more away, presumably from bird-disseminated seeds. The seeds of this species germinate freely following cold stratification for 3 months.

MYRIOPHYLLUM SPICATUM L. Bracken Co.: locally common in inlet and still, turbid water along shore of Ohio River just above Meldahl Dam, ca 2 mi E of Foster, *Thieret 52247* (KNK), 1 Jul 1980. This Eurasian species is widely naturalized and spreading in eastern North America.

LINARIA CANADENSIS (L.) Dum. McCracken Co.: railroad yard at 15th and Jackson, Paducah, *Thieret 50944* (KNK), 5 Jun 1979.

CHRYSOGONUM VIRGINIANUM L. var. VIRGINIANUM. McCreary Co.: sandy banks and lower slopes above the South Fork of the Cumberland River at and just upstream from Big Shoals, *Cranfill & Medley 4953* (KY), 16 May 1980. The plants at this station represent the northwesternmost collections to date (Stuessy 1977). The station nearest to our collection is some 50 miles east in Claiborne County, Tennessee.

CREPIS JAPONICA (L.) Benth. Campbell Co.: garden weed, persistent at least 3 years, Alexandria, *Thieret 50771* (KNK), 23 Sep 1978.

PICRIS HIERACIOIDES L. Campbell Co.: waste place along River Road, ca 2 miles NW of California, *Thieret 48933* (KNK), 7 Nov 1975.

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